1. Concurrent programming (Module II)

Nelma Moreira & José Proença

Concurrent programming (CC3040) 2023/2024

CISTER - U.Porto, Porto, Portugal

https://fm-dcc.github.io/pc2324







Contents of this module

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Blocks of sequential code running concurrently and sharing memory:

- What is Scala and why using it?
- Concurrency in Java and its memory model
- Basic concurrency blocks and libraries
- Futures and promises
- Actor model (maybe)

We will be less formal

- focus on concepts and programs
- study operators and libraries
- tool support with Scala

We will have hands-on

- Practical programming exercises
- Apply the concepts we see

Logistics

Useful information



Relevant class material and announcements will be posted on the website periodically

https://fm-dcc.github.io/pc2324

Lecturers

- Nelma Moreira https://www.dcc.fc.up.pt/~nam/
- nelma.moreira@fc.up.pt
- office hours: tbd

- José Proença https://jose.proenca.org
- jose.proenca@fc.up.pt
- office hours: Thursday afternoon

(Please send an email the day before if you wish to meet)

Grading



Grading will consist of:

- 40% (T1) individual test for module I (≥ 6)
- 30% (T2) individual test for module II (≥ 6)
- 70% (FE) individual final exam for modules I and II
- 30% (CW) course work for modules I and II
 - groups of at most 2 students
 - 10% for module I
 - 20% for module II

Normal period

$$71 \times 0.3 + 72 \times 0.4 + CW \times 0.3 \ (\ge 9.5)$$

Mandatory 25% attendance in PL

Extra period (recurso)

$$FE \times 0.7 + CW \times 0.3 \quad (\geq 9.5)$$